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(54) PRODUCTION OF HIGH STRENGTH SEAMLESS STEEL PIPE EXCELLENT IN SULFIDE STRESS CRACKING RESISTANCE

(57) Abstract:

PURPOSE: To provide a method for producing a seamless steel pipe having high sulfide stress cracking resistance, high strength and high toughness using a direct hardening method.

CONSTITUTION: This is a method for producing a high strength seamless steel pipe excellent in sulfide stress cracking resistance in which, at the time of producing a seamless steel pipe by subjecting a billet having a prescribed chemical compsn. and satisfy-

ing Ti(%)-(48/14){N(%)-(14/91)Zr(%)}>0 to hot piercing and rolling, in succession to piercing, finish rolling of \geq 40% cross sectional compressibility is executed at 800 to 1050°C finishing temp., after that, reheating is executed at a temp. T(°C) in the temp. range of 850 to 1100°C for time t(h) to regulate the value of (T+273) (21+logt) to 23500 to 26000, immediately, direct hardening is executed, and next, tempering is executed at the Ac₁ point or below. In the case the piercing is executed by a cross piercing machine or the contents of P and S in impurities are reduced, the effects are high. When reheating hardening is executed after the direct hardening, the effects are moreover high.

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